MATHS

BOOKS - SWAN PUBLICATION

RATIONAL NUMBERS

Exercise 9 1

1. Write two equivalent rational numbers of the following :

$\frac{4}{5}$

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2. Write two equivalen rational numbers of the following :

$$\frac{-5}{9}$$

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3. Write two equivalen rational numbers of the following :

$$\frac{3}{-11}$$

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4. Find the standard form of the following rational numbers :

$\frac{35}{49}$

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5. Find the standard form of the following rational numbers :

$\frac{-42}{56}$

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6. Find the standard form of the following rational numbers :

$$\frac{19}{-57}$$

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7. Find the standard form of the following rational numbers :

$$\frac{-12}{-36}$$

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8. Which of the following paris represent same rational number

$\frac{-15}{25}$ and $\frac{18}{-30}$

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9. Which of the following paris represent same rational number

$\frac{2}{3}$ and $\frac{-4}{6}$

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10. Which of the following pairs represent same rational number

$\frac{-3}{4}$ and $\frac{-12}{16}$

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11. Which of the following pairs represent same rational number

$\frac{-3}{-7}$ and $\frac{3}{7}$

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12. Which is greater in each of the following ?

$\frac{3}{7}, \frac{4}{5}$

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13. Which is greater in each of the following ?

$\frac{-4}{12}, \frac{-8}{12}$

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14. Which is greater in each of the following ?

$$\frac{-3}{9}, \frac{4}{-18}$$

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15. Which is greater in each of the following ?

$$-2\frac{2}{3}, -3\frac{5}{8}$$

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16. Write the following rational numbers in ascending order

$$\frac{-5}{7}, \frac{-3}{1}, \frac{-1}{7}$$

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17. Write the following rational numbers in ascending order

$$\frac{-1}{5}, \frac{-2}{15}, \frac{-4}{5}$$

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18. Write the following rational numbers in ascending order

$$\frac{-3}{8}, \frac{-2}{4}, \frac{-3}{2}$$

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19. Write five rational numbers between following rational numbers

-2 and -1

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20. Write five rational numbers between following rational numbers

$\frac{1}{3}$ and $\frac{5}{7}$

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21. Write five rational numbers between following rational numbers

$\frac{1}{3}$ and $\frac{5}{7}$

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22. Write four more rational numbers in each of the following.

$\frac{1}{5}, \frac{2}{10}, \frac{4}{20}, \frac{8}{40} \ldots\ldots$

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23. Write four more rational numbers in each of the following.

$\frac{-1}{7}, \frac{2}{-14}, \frac{3}{-21}, \frac{4}{-28} \ldots\ldots$

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24. Draw a number line and represent the following rational number on it.

$\frac{2}{4}$

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25. Draw a number line and represent the following rational number on it.

$\frac{-3}{4}$

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26. Draw a number line and represent the following rational number on it.

$$\frac{5}{8}$$

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27. Draw a number line and represent the following rational number on it.

$$\frac{-6}{4}$$

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Exercise 9 1 Multiple Choice Questions

1. Multiple choice questions :

$\frac{3}{4} = \frac{?}{12}$, then ? =

A. 3

B. 6

C. 9

D. 12

Answer: C

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2. Multiple choice questions :

$\frac{4}{7} = \frac{?}{14}$, then ? =

A. -4

B. -8

C. 4

D. 8

Answer: B

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3. Multiple choice questions :

The standard form of rational number $\frac{-21}{28}$ is

A. $\frac{-3}{4}$

B. $\frac{3}{4}$

C. $\frac{3}{7}$

D. $\frac{-3}{7}$

Answer: A

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4. Multiple choice questions :

Which of the following rational number is not equal to $\frac{7}{-4}$?

A. $\frac{14}{-8}$

B. $\frac{21}{-12}$

C. $\frac{28}{-16}$

D. $\frac{7}{-8}$

Answer: D

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5. Multiple choice questions :

Which of the following is correct ?

A. $0 > \frac{-4}{9}$

B. $0 < \frac{-4}{9}$

C. $0 = \frac{4}{9}$

D. None

Answer: A

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6. Multiple choice questions :

Which of the following is correct ?

A. $\frac{-4}{5} < \frac{-3}{10}$

B. $\frac{-4}{5} > \frac{3}{-10}$

C. $\frac{-4}{5} = \frac{3}{-10}$

D. $\frac{-4}{5} > \frac{3}{-10}$

Answer: A

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Exercise 9 2

1. Find the sum

$$\frac{6}{9} + \frac{2}{9}$$

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2. Find the sum

$$\frac{-15}{7} + \frac{9}{7}$$

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3. Find the sum

$$\frac{17}{11} + \left(\frac{-9}{11}\right)$$

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4. Find the sum

$$\frac{-5}{6} + \frac{3}{18}$$

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5. Find the sum

$$\frac{-7}{19} + \frac{-3}{38}$$

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6. Find the sum: $\frac{2}{3} + 0$

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7. Find the sum

$$\frac{-5}{14} + \frac{8}{21}$$

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8. Find the sum

$$-4\frac{1}{15}+3\frac{2}{20}$$

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9. Find

$$\frac{7}{12}-\frac{11}{36}$$

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10. Find

$$\frac{-5}{9} - \frac{3}{5}$$

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11. Find

$$\frac{-7}{13} - \left(\frac{-5}{91}\right)$$

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12. Find

$$\frac{6}{11} - \frac{3}{4}$$

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13. Find

$$3\frac{4}{9} - \frac{28}{63}$$

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14. Find the product of

$$\frac{5}{9} \times \frac{-3}{8}$$

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15. Find the product of

$$\frac{-3}{7} \times \frac{7}{-3}$$

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16. Find the product of

$$\frac{3}{13} \times \frac{5}{8}$$

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17. Find the product of

$$\frac{3}{10} \times (-18)$$

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18. Find the value of

$$-9+\frac{3}{5}$$

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19. Find the value of

$$\frac{-4}{7}+4$$

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20. Find the value of

$$\frac{7}{11} + \frac{5}{6}$$

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21. Find the value of

$$\frac{-8}{35} + \left(\frac{-2}{7}\right)$$

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22. Find the value of

$$\frac{-9}{15} + -18$$

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23. What rational number should be added to $\frac{-5}{12}$ to get $\frac{-7}{8}$?

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24. What number should be subtracted from $\frac{-2}{3}$ to get $\frac{-5}{6}$?

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25. The product of two rational numbers is $\frac{-11}{2}$. If one of them is $\frac{33}{8}$, find the other number.

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Exercise 9 2 Multiple Choice Questions

1. The sum of $\frac{5}{4} + \left(\frac{25}{-4}\right) =$

A. -5

B. 5

C. 4

D. -4

Answer: A

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2. $\frac{17}{11} - \frac{6}{11} =$

A. 1

B. -1

C. 6

D. 3

Answer: A

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3. $\frac{2}{-5} \times \frac{-5}{2} =$

A. 1

B. -1

C. 2

D. -5

Answer: A

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4. $\frac{7}{12} + \left(\frac{-7}{12}\right) =$

A. 1

B. -1

C. 7

D. 0

Answer: B

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5. Which of the following is value of $(-4) \times [(-5) + (-3)]$

A. -32

B. 120

C. 32

D. -23

Answer: C

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Other Important Questions

1. Which of the following is not equivalent to fraction $-\frac{2}{3}$?

A. $\frac{10}{-15}$

B. $-\frac{8}{12}$

C. $-\frac{12}{21}$

D. $\frac{-16}{24}$

Answer: C

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2. Which of the following is not a positive rational number ?

A. $\frac{2}{3}$

B. $\frac{-3}{-5}$

C. $\frac{-2}{3}$

D. $\frac{5}{7}$

Answer: C

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3. Which of the following is a positive rational number ?

A. $\frac{2}{-3}$

B. -3

C. $\frac{-2}{-9}$

D. $\frac{15}{-90}$

Answer: C

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4. Which of the following is a rational number is standard form ?

A. $\frac{-12}{24}$

B. $\frac{28}{77}$

C. $\frac{7}{16}$

D. $\frac{15}{-90}$

Answer: C

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5. The value of $\left(\frac{-9}{16} \times \frac{8}{15}\right)$ is :

A. $\frac{-8}{25}$

B. $\frac{-9}{15}$

C. $\frac{-3}{10}$

D. $\frac{-2}{5}$

Answer: C

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6. The product of a rational number and its reciprocal is :

A. 0

B. 1

C. -1

D. None of these

Answer: B

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7. Which of the following rational numbers does not lie between - 1 and - 2 ?

A. $\frac{-11}{10}$

B. $\frac{-17}{10}$

C. $\frac{-19}{10}$

D. $-\frac{3}{5}$

Answer: D

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8. The value of $\frac{3}{13}+\left(\frac{-4}{65}\right)$ is :

A. $\frac{-12}{65}$

B. $\frac{-1}{65}$

C. $\frac{-15}{4}$

D. $-\frac{1}{5}$

Answer: C

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9. Number $\frac{-3}{5}$ lies on the number line on

A. Right of zero

B. Left of zero

C. Both a and b

D. None of these

Answer: B

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10. Which of the following rational numbers are less than 1 ?

A. $\frac{3}{10}$

B. $\frac{5}{10}$

C. $\frac{7}{10}$

D. All of above

Answer: B

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11. How many rational numbers lie between 2 and 3 ?

A. 1

B. 2

C. 3

D. Infinite

Answer: D

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12. Additive inverse of $(-8+3)$ is :

A. -11

B. 11

C. -5

D. 5

Answer: D

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13. The number of the form $\frac{a}{b}$, where a and b are integers, b ≠ 0 are called ..... .

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14. $\frac{-5}{7}, \frac{-10}{14}, \frac{-15}{21}$ are ..... rational numbers.

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15. Standard form of $\frac{105}{210}$ is ..... .

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16. A negative rational number is always ..... than zero.

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17. Sum of rational numbers and its additive inverse is 1.

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18. Fill in the blanks :

Product of rational number and its reciprocal is .... .

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19. The sum of $\frac{3}{7} + \left(\frac{24}{-7}\right)$ = ...

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20. Reciprocal of 1 is ..... .

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21. A rational number is said to be negative if its both numerators and denominators are negative.

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22. A positive rational number is always greater than zero.

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23. $\frac{7}{16}$ and $\frac{-7}{-16}$ represent different rational numbers.

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24. 0 is the only rational number which is additive inverse of its self.

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25. Reciprocal of 0 exists.

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26. Multiplicative inverse of a non-zero rational number $\frac{a}{b}$ is (-a)/(b)`.

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